

## **Mechanical Handling Data Sheet**

Top Running, Double Girder



Data Sheet No. 24590-HLW-M0D-HDH-00021 Plant Item No. 24590-HLW-MJ-HDH-CRN-00005

Project	RPP-WTP	RPP-WTP		Description		Decontamination Swabbing and Me		lonitoring Crane	
Project No.	24590		Supporting Calculation No.			N/A 3			
Planning Area			Associated Drawing No.		N/A		111 1 11 11 11 11 11 11 11 11 11 11 11		
System No.	HDH		Associated Specification No.		ition No.	24590-WTP-3PS-MJKG-T0003			
Building No.	30		Associated MR No. 24590-QL-			24590-QL-I	MRA-MJKG-00002	R10704039	
Quality Level	►CM ∠	3\							
Seismic Criteria	SC-II								
Function	Canister Ha	ndling and Maintena	nce Activities						
							100	UED BY	
	40 years		DES	SIGN CRI	TERIA		ra r-	WITP PDC	
Design Life	Safety Classification								
			In-Cave			T			
OPERATING ENVIRON	OPERATING ENVIRONMENT				133	Out-Cave	Rm # H-313A	List All Special	
T		T		Max		Min	Max	Conditions	
Temperature	··	deg F		113		59	113		
Relative Humidity	<del></del>	%		70		0	70		
Radiological Equip. Dose	· · · · · · · · · · · · · · · · · · ·	mrad/hr	▶4.0*E+4			▶100 /3			
Dedictorical Objection (	neutron	neutron mrad/hr		Negligible		Negligible  ►R3/R5 3			
Radiological Classification Contamination Classification	►R3/R5				3	_			
Contamination Classifica	C3			►C3 <u>3</u>					
Time of O		I=		REQUIR					
Type of Crane Service Information				e Girder Electric Overhead Travelin			Tons		
		CMAA 70-2000, CI	ass E		Capacity		6 Ton		
Crane Operation Indoors  Material Handled	?	Yes, In-Cave			Main Hoist		6 Ton		
Class Information		Canisters and Ancillary Equipment			Auxiliary Ho Trolley	ist	N/A		
No. of Cranes Required		Class E	Class E				6 Ton		
ASCE Rail Type or Beam	Sizo	104 lb/vd Crops	Rail 3	Bridge			6 Ton		
ACCE Itali Type of Beam	i Size	► 104 lb/yd Crane	Rall 23						
	<del>. "</del>	ODERATING C	LIADAGTER	07100 5	DEGUES				
Hoist- Range of Lift		OPERATING O	HARACIERI	STICS - F	No. lifts/day	OF MOVEM	ENT  6		
		(F) - (G) 1/2 Runway Length							
Average Moves - Bridge Average Moves - Trolley		Moves/day			12				
CRANE DIMENSIONS A	ND EL EVATION	3/4 Bridge Length			Moves/day		6		
		15					Symbol	ft - in.	
Lowest Obstruction Eleva Shield Door Corner Obstr							(A)	46-6"	
Trolley Rail Elevation	uction Elevation		(B)	46'-0"					
				<del></del>			(C)	41'-11" NOMINAL	
Bridge Rail Elevation Lowest Point of Crane Elevation							(D)	40'-3.5"	
High Hook Elevation	evalion						(E)	39'-9"	
Low Hook Elevation			<del></del>				(F)	38'-6"	
Side Approach - hoist cen	iter line to West	Rails	<del></del>				(G)	-9'-0"	
Side Approach - hoist cen							(H)	3'-4"	
Distance from Grid line "1							(1)	3'-4"	
Distance from hoist cente							(J)	-1'-9"	
Distance from hoist cente							(K) <u>3</u>	►5'-9"	
Distance from hoist cente		· · · · · · · · · · · · · · · · · · ·					(L) <u>3</u> (M) <u>3</u>	▶7'-2"	
Distance from hoist cente					<del></del>			▶5'-9"	
Distance from Grid Line "F							(N) 3	▶7'-2" 0'-8"	
Total distance between in		<del></del>	·				(0) (P)		
Range of Lift							(R)	107'-0" 47'-6"	
Runway Rails Span			(S)	9'-8"					
Shield Door Corner Obstru	uction			<del></del>		·	(T)	0'-6"	
							N.7.	10.0	
8/10/06 3			Fin	Tran	A.W.K	Erd	Oh Amel	An Sey FOR	
100	See note 13		N J Darwen		A. Whitford	CT	P. Snider 3LW	D. Wilsey	
9/08/03 2	See note 12		A. Whitford		L. Harrison		G. Marr	D. Wilsey	
1/27/02 1	See note 11		David Hortor		Paul Carter		Joni Weamer/ Jim Browe		
2/26/02 0	Issued for Pro	curement	Joeseph Roa		Andy Whitfor	d	Jim Brower	Dave Wilsey	
ate REV	Revisions		Ву		Checked		Supervisor	Approved	
oc Number	24590-HLW-N	24590-HLW-M0D-HDH-00021		EV	3			1 of 3	

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	Mecha	anical Handling	Data Sheet		Data Sheet No.							
Billing		Fop Running, Double			24590-HLW-M0D-HDH-00021 Plant item No. Rev.							
	'	rop Ruming, Double	Gildei	Plant Item No.								
DRIVE TYPE SPEED	AND HORSEPON	WER	-		24590-HLW-MJ-HDH-C	RN-00005	3					
Drives	AND HOROLI O	7	Const	l								
Main Hoist Drive Type		Drive Type Flux Vector	Speed	Horsepower		low	Fast					
Recovery Hoist Drive Type		Single Speed	Variable 0 - 25	12 HP	Nominal Speed (ft/m):	5						
Main Bridge Drive Type		VFD	Single Speed Variable 0 - 50	7 HP	Nominal Speed (ft/m):	5						
Recovery Bridge Drive Type		Single Speed	Single Speed	4 HP	Nominal Speed (ft/m):	5	<del></del>					
Main Trolley Drive Type		VFD	Variable 0-25	1 HP 1.5 HP	Nominal Speed (ft/m):	5						
Recovery Trolley Drive Type		Single Speed	Single Speed	0.75 HP	Nominal Speed (ft/m):	- 5						
Powered Hook		DC Motor	Fixed	0.05 HP	Nominal Speed (ft/m):	5						
			) ixed	0.00 111	Nominal Speed (rpm):	1-2	L					
CONDUCTOR TYPE												
Bridge	Cable Reel		***									
Trolley	Cable Traci		·									
	TOUBLE TIAC											
CONTROLS	7-11			,								
Method of Control		Manual										
Location of Control			Manual Defined down 2011 ID 1997									
Type of Control Enclos	ure	NEMA 4X or IP 66	Dedicated Crane Control Room/ Window Station/ Crane Maintenance Area									
		TATE IN THE SECOND SECOND	,									
ELECTRICAL REQUIF	REMENTS											
ltem		Volts Phase Hertz										
Motor	-14	480 VAC / 3 Phas										
Special Wiring Condition	ons	National Electric C	ode									
MAINTENANCE DEOL	UDEMENTO											
MAINTENANCE REQUE	DIKEMENIS	Isa dula da la companya										
Modularization			of assembly / dismantl item except bridge be									
Retrieval			rievable / Hoist must b		nust be < 5 tons.							
Decontamination					cracks and crevices that can trap deb	ric						
					ordene and crevices that can trap deb	113						
				* .	i							
ADDITIONAL REQUIR						1						
<ol> <li>Motors and electrica</li> </ol>	cabinets etc. to l	be sealed to withstar	nd occasional washdo	wn during decontam	ination.	V ·						
2. Four crane mounted	cameras capable	of pan, zoom, iris a	nd tilt and one hook d	eployed camera inc	luding lighting, pan, tilt, zoom and iris	to view cay	e floors.					
The Buyer supplies the	cameras, Seller	provides mounts.					\$ . <i></i>					
3. All cranes shall be d						53.5						
4. Two crane mounted							*					
5. Must be able to hold	and control susp	ended payload witho	ut mechanical braking	for sustained perio	ds.		·					
6. Must not drop load d												
7. Must be recoverable	by remote means	s after any specified	single random or com	mon mode failure by	y use of redundant drives in conjunction	on with cabl	e reel					
where necessary.	ired at back for a											
Power supply is requ												
Motor horsepower es     This drawing provid												
sed to confirm the as I	built \A/TD structur	s, design objectives,	and bounding dimens	ons to contracted d	esign or fabrication supplier(s) and sh	all not be						
conformance to purcha			nent identified herein.	See vendor informa	ation for final configuration provided in	1						
				·····								
►11. Revision 1 chang	es. Changeu adu	de la	number of lifts per da	y, drives, and descr	iption <u>/3</u>							
Added note to sketch or	es. Revised base n configuration	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	W-DCA-PL-03-002 Re	v 0 and editorial cha	anges. Changed recovery drive type;	was VFD.						
			APC: Quality Level ch	anged to CM: Color	ef deleted; Dimension K & M ammend							
include bumper e	extensions that all	ow humbers to enga	ge on cave wall, IAW	24500 HIVALACA M	er deleted; Dimension K & M ammend	led to	<u>3</u>					
	Alexandre dide din	our bumpers to enga	ge on cave wan, iAvv	24390-HLVV-ACA-IVI	-05-00031							
	· · · · · ·					<u> </u>						
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## **Mechanical Handling Data Sheet**

Top Running, Double Girder

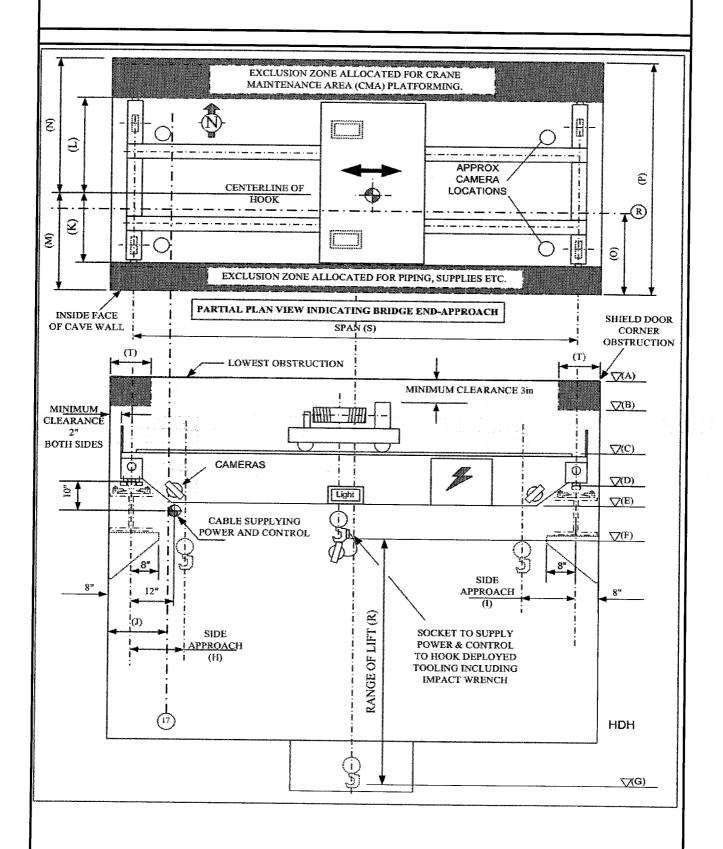
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